

What Is Claimed Is:

1. An image processing apparatus comprising:
input means for inputting image data of a still

5 image;

branching means for branching the image data
inputted by said input means;

first memory used for storing one of the image data
branched by said branching means;

10 memory controller which controls writing of the one
of the image data, branched by said branching means into
said first memory, into said first memory;

a first switch for selecting image data stored in
said first memory or the other branched image data not
15 stored in said first memory; and

output means for outputting the image data selected
by said first switch.

2. The image processing apparatus according to
20 claim 1, wherein said memory controller enables to write
the image data of one frame into said first memory when
capturing of the still image is instructed.

3. The image processing apparatus according to
25 claim 1, wherein said first memory is a single-port
memory.

4. The image processing apparatus according to claim 1, wherein, while writing the image data into said first memory, said first switch selects the other image data which is branched by said branching means, and selects the image data stored in said first memory after writing of the image data to said first memory is completed.

5. The image processing apparatus according to claim 4, wherein the image data is outputted from said output means in a video signal format, and said first switch changes selection of the image data during a vertical blanking period of a displaying device.

6. The image processing apparatus according to claim 1, further comprising:

image processing means for applying predetermined processing to the image data stored in said first

memory; and

second memory used for storing the image data applied with the predetermined processing,

wherein said image processing means applies the predetermined processing to the image data stored in said first memory while the image data is also outputted to said output means.

7. The image processing apparatus according to claim 6, wherein the predetermined processing performed by said image processing means is reduction of an image.

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8. The image processing apparatus according to claim 7, further comprising arranging means for controlling said second memory so that a plurality of reduced images, arranged within a frame image area, by
10 said image processing means are written to said second memory.

9. The image processing apparatus according to claim 6, wherein the predetermined processing performed
15 by said image processing means is rotation of an image.

10. The image processing apparatus according to claim 6, wherein the predetermined processing performed by said image processing means is rotation of an image
20 and reduction of the image associated with the rotation.

11. The image processing apparatus according to claim 1, further comprising a masking means for adding mask data to either of the image data stored in said
25 first memory or the image data to be outputted.

12. The image processing apparatus according to claim 11, further comprising a second switch for selecting either the mask data outputted from said masking means or the image data selected by said first switch, and outputting the selected data to said output means.

13. The image processing apparatus according to claim 1, wherein the still image is obtained by sensing a photograph film.

14. The image processing apparatus according to claim 1, further comprising an image sensing device for sensing a still image, generating the image data, and transferring the image data to said input means.

15. The image processing apparatus according to claim 1, further comprising a display device for displaying the image data outputted from said output means.

16. An image processing apparatus comprising:
first memory used for storing input image data;
image processing means for reading the image data from said first memory and applying predetermined processing to the image data;

second memory used for storing the image data
applied with the predetermined processing;

a first switch for selecting the image data stored
in said first memory or the image data stored in said

5 second memory; and

output means for outputting the image data selected
by said first switch,

wherein said image processing means applies the
predetermined processing to the image data stored in
10 said first memory while the image data is also outputted
to said output means.

17. The image processing apparatus according to
claim 16, wherein said first switch selects the image
15 data stored in said second memory after writing of the
image data applied with the predetermined processing by
said image processing means to said second memory is
completed.

20 18. The image processing apparatus according to
claim 17, wherein the image data is outputted from said
output means in a video signal format, and said first
switch changes selection of the image data during a
vertical blanking period.

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19. The image processing apparatus according to claim 16, wherein the predetermined processing performed by said image processing means is reduction of an image.

5 20. The image processing apparatus according to claim 19, further comprising arranging means for controlling said second memory so that a plurality of reduced images by said image processing means are written to said second memory as they are arranged
10 within a frame image area.

21. The image processing apparatus according to claim 16, wherein the predetermined processing performed by said image processing means is rotation of an image.
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22. The image processing apparatus according to claim 16, wherein the predetermined processing performed by said image processing means is rotation of an image and reduction of the image associated with the rotation.
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23. The image processing apparatus according to claim 16, further comprising a masking means for adding mask data to the image data.

24. The image processing apparatus according to claim 23, further comprising a second switch for
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selecting either the mask data outputted from said masking means or the image data selected by said first switch, and outputting the selected data to said output means.

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25. The image processing apparatus according to claim 16, wherein the still image is obtained by sensing a photograph film.

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26. The image processing apparatus according to claim 16, further comprising an image sensing device for sensing a still image, generating the image data, and transferring the image data to said input means.

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27. The image processing apparatus according to claim 16, further comprising a display device for displaying the image data outputted from said output means.

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28. An image processing method comprising:
an input step of inputting image data of a still image;

a branching step of branching the image data inputted in said input step;

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a first storing step of storing one of the image data branched in said branching step;

a memory control step of controlling timing for writing the one of the image data, branched in said branching step, in said first storing step;

a first selecting step of selecting image data
5 stored in said first memory or the other branched image data not stored in said first storing step; and

an output step of outputting the image data selected in said first selecting step.

10 29. The image processing method according to claim 28, wherein, when capturing of the still image is instructed, image data of one frame is controlled to be written in said first storing step by said memory control step.

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30. The image processing method according to claim 28, wherein, in said first selecting step, while writing the image data in said first storing step, the other image data which is branched in said branching step is
20 selected, and after writing of the image data is completed in said first storing step, the image data stored in said first storing step is selected.

31. The image processing method according to claim
25 30, wherein the image data is outputted in a video signal format in said output step, and selection of the

image data performed in said first selecting step is changed during a vertical blanking period of a display device.

5 32. The image processing method according to claim 28, further comprising:

an image processing step of applying predetermined processing to the image data stored in said first storing step; and

10 a second storing step of storing the image data applied with the predetermined processing,

wherein, in said image processing step, the predetermined processing is applied to the image data stored in said first storing step while the image data
15 is simultaneously outputted in said output step.

20 33. The image processing method according to claim 32, wherein the predetermined processing performed in said image processing step is reduction of an image.

25 34. The image processing method according to claim 33, further comprising an arranging step of controlling said second storing step so that a plurality of images reduced in said image processing step are arranged within a frame image area.

35. The image processing method according to claim 32, wherein the predetermined processing performed in said image processing step is rotation of an image.

5 36. The image processing method according to claim 32, wherein the predetermined processing performed in said image processing step is rotation of an image and reduction of the image associated with the rotation.

10 37. The image processing method according to claim 28, further comprising a masking step of adding mask data to the image data to be outputted.

15 38. The image processing method according to claim 37, further comprising a second selecting step of selecting either the mask data to be added in said masking step or the image data selected in said first selecting step.

20 39. The image processing method according to claim 28, wherein the still image is obtained by sensing a photograph film.

25 40. The image processing method according to claim 28, further comprising an image sensing step of sensing a still image, and generating the image data.

41. The image processing method according to claim 28, further comprising a displaying step of displaying the image data outputted in said output step.

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42. An image processing method comprising:
a first storing step of storing input image data;
an image processing step of reading the image data stored in said first storing step and applying
10 predetermined processing to the image data;
a second storing step of storing the image data applied with the predetermined processing;
a first selecting step of selecting the image data stored in said first storing step or the image data
15 stored in said second storing step; and
an output step of outputting the image data selected in said first selecting step,
wherein, in said image processing step, the predetermined processing is applied to the image data
20 stored in said first storing step while the image data is simultaneously outputted in said output step.

43. The image processing method according to claim 42, wherein, in said first selecting step, after writing
25 of the image data applied with the predetermined processing in said image processing step is completed,

the image data stored in said second storing step is selected.

44. The image processing method according to claim 5 43, wherein the image data is outputted in a video signal format in said output step, and selection of the image data performed in said first selecting step is changed during a vertical blanking period.

10 45. The image processing method according to claim 42, wherein the predetermined processing performed in said image processing step is reduction of an image.

15 46. The image processing method according to claim 45, further comprising an arranging step of controlling said second storing step so that a plurality of images reduced in said image processing step are written as they are arranged within a frame image area.

20 47. The image processing method according to claim 42, wherein the predetermined processing performed in said image processing step is rotation of an image.

25 48. The image processing method according to claim 42, wherein the predetermined processing performed in

said image processing step is rotation of an image and reduction of the image associated with the rotation.

49. The image processing method according to claim
5 42, further comprising a masking step of adding mask

data to the image data.

50. The image processing method according to claim
49, further comprising a second selecting step of
10 selecting either the mask data to be added in said
masking step or the image data selected in said first
selecting step.

51. The image processing method according to claim
15 42, wherein the still image is obtained by sensing a
photograph film.

52. The image processing method according to claim
42, further comprising an image sensing step for sensing
20 a still image, and generating the image data.

53. The image processing method according to claim
42, further comprising a displaying step of displaying
the image data outputted in said output step.

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54. A computer program product comprising a computer usable medium having computer readable program code means embodied in said medium for processing image data, said product including:

5 first computer readable program code means of an input step for inputting image data of a still image;

second computer readable program code means of a branching step for branching the image data inputted in said input step;

10 third computer readable program code means of a first storing step for storing one of the image data branched in said branching step;

fourth computer readable program code means of a memory control step for controlling timing for writing
15 the one of the image data, branched in said branching step, in said first storing step;

fifth computer readable program code means of a first selecting step for selecting image data stored in said first memory or the other branched image data not
20 stored in said first storing step; and

sixth computer readable program code means of an output step for outputting the image data selected in said first selecting step.

25 55. A computer program product comprising a computer usable medium having computer readable program

code means embodied in said medium for processing image data, said product including:

first computer readable program code means of a first storing step for storing input image data;

5 second computer readable program code means of an image processing step for reading the image data stored in said first storing step and applying predetermined processing to the image data;

10 third computer readable program code means of a second storing step for storing the image data applied with the predetermined processing;

fourth computer readable program code means of a first selecting step for selecting the image data stored in said first storing step or the image data stored in
15 said second storing step; and

fifth computer readable program code means of an output step for outputting the image data selected in said first selecting step,

20 wherein, in said image processing step, the predetermined processing is applied to the image data stored in said first storing step while the image data is simultaneously outputted in said output step.